ame		AP	Chem	
olve th good	time to talk $35/35 = 5$	c Credit - #3 g multiple choice problems for up to 5 TEST ext to a classmate you haven't so far and compare n EC points; 34/35 = 4 EC points; 33/35 = 3 AP Chemistry exam!!! Circle and write the corr	otes. My room is available. #IWANT100% EC points; 32/35 = 2 EC points; 31/35 =	#YOTAPCO 1 EC point
	4	Which of the following molecules has the shorter		·
•	a. N_2	b. O ₂ c. Cl ₂ d. E		Angele. A success
	a. H ₂ Se	For which of the following molecules are resonated b. SeO_2 c. CS_2 d. SeO_3		g satisfactorily?
	a. C-Si	Which of the following bonds is expected to be b. C-N c. O-C d. S		
	a. CHCl ₃	For which of the following may we draw both p b. PH ₃ c. BF ₃ d. S	oolar and nonpolar Lewis structures? F ₂ Cl ₄ e. PCl ₅	*
	a. BCl ₃	Which of the following has a non-bonding pair b. NH ₃ c. CCl ₂ Br ₂ d. P	of electrons on the central atom?	
se the	following a. trigona	answers for questions 6-10. Choose the correct good by trigonal pyramidal	c.linear	
	D	OF_2 e. te	trahedral	
	<u>B</u> _	PH_3		
	<u> </u>	NO ₂		
),	<u> </u>	$\mathrm{CH_2F_2}$ $\mathrm{BF_3}$		
,· 	C	The SF ₅ ion has a square pyramidal structure.		
	a. dsp ³	b. sp c. d^2sp^3 d. s	p ³ e. sp ²	
	a. I ₂	Which of the following is not a linear structure b. I ₃ c. CO ₂ d. F		
	a. N ₂	The Lewis structure of the cyanide ion most cl b O ₂ c. CO ₂ d. N		
•	a. sp ³ and	In which of the following pairs are the two iter 1 109.5° b. trigonal planar and 120° d. sp and 180° e. square pla	c. octahedral and dsp ³	,
i	a. none	How many resonance structures are possible for b. 2 c. 3 d. 4	or the CO ₂ molecule? e. 4/3	
i	a. CO ₂	Pi bonding occurs in each of the following spe b. NO ₃ c. CN d. S		
7	<u></u>	_ Ca, V, Co, Zn, As		
aseou	is atoms of a. Ca and	which of the elements above are paramagnetic?	c. Ca, V, and Co only	
-			, Co, and Zn only	

	ving answer gonal plana	r b. trigor	- 22. Choose the cal pyramidal	c. squar	for the molecules list re pyramidal	ed.			
		d. bent		e. tetrahedral					
18	OBr ₂								
19. 2	PCl ₃								
20	NO ₃	-							
21	BrF ₅	ı							
22	NF ₃								
Use the feller	vina analya	es for appetions 22	25			·			
a. O	ving answei	rs for questions 23 b. La	- 23. c. Rb	d. Mg	e. N				
23.	What	is the most electro							
24.	~ Whic	h element exhibits	the greatest numb	er of different oxi	idation states?	Topic Control of the			
Which element exhibits the greatest number of different oxidation states?									
25.	Whic	h of the elements a	above has the small	llest ionic radius f	or its most commonl	y found ion?			
26 a . B	The e	elements in which o	of the following hat b. Ne, Ar, Kr, Xe	A Programme (1)	e same atomic radiu Za, Sr, Ba	s?			
		d. C, P, Se, I	0,110,120,120	e. Cr, Mn, Fe, Co					
27.	Whic	h of the following	sets of quantum n	umbers (n. l. ml. r	ns) best describes th	e valence electron of highest			
		gallium atom (aton	nic number 31)?		Particle Miles of Programme Communication Co	o talendo dicomon or mignest			
	$0, 0, \frac{1}{2}$	b. 4, 0, 1, ½	c. 4, 1, 1, ½	d. 4, 1, 2, ½	e. 4, 2, 0, ½				
	h n/1		1/2	CASE					
28. <u>a. H</u>		onding occurs in ea b. CCl ₂ F ₂		g species EXCEP d. SeO ₅	T e. SiO ₃ ²⁻				
\sim				Algebra					
29.		bonding in carbon	A STATE OF THE STA		4.0 11 4				
a. 2 :	c. 3 pi	s and 1 pi bond bonds	d. 3 sigma bonds	b. 1 sigma bond e. 1 sign	and 2 pr bonds ma and 1 pr bond				
30 Z	Whic	h species has the s	mallest Cl-A-Cl b	ond anole where A	A is the central atom	7			
a. B		b. CCL	c. NCl ₃	d. OCl ₂	e. SCl ₆				
31.	Ifas	sulfur trioxide mol	ecule is drawn so t	that the formal cha	arge on each atom is	zero, it will have the following			
types of bond	s:	Figure 1	·						
a. 3	σ and 0π	b. 3σ and 1π	c. 3 σ and 2 π	d. 3 σ and 3 π	e. 3 σ and 6 π				
32.	Whi	ch of the following	atoms is the most	t naramagnetic?					
	dium	b. aluminum	c. magnesium	d. sulfur	e. chlorine				
33.		I. PF ₄ ⁺	II. SF ₂	III. NO					
		or more atoms that							
a. I	and II only	b. III only	c. I only	d. I, II &III	e. I and III only				
Use the structural formula for propyne, (CH ₃ CCH) to the right for questions 34-35.									
34.	Wha	t is the hybridization	on of the carbon a	tom indicated by t	he arrow?	$-C-C \equiv C-H$			
a. sp		b. sp^2	c. sp ³	d. dsp ³	e. d^2sp^3	$-C - C \equiv C - H$			
35.	India	ate the total numbe	er of sioma (a) bo	nds and the total n		A.A.			
35. Indicate the total number of sigma (σ) bonds and the total number of pi (π) bonds in the molecule. a. 8 sigma & 0 pi b. 7 sigma and 1 pi c. 6 sigma & 2 pi									
	- r	d. 5 sigma & 3 p		e. 3 sigma & 5 p.					